a. Title of Investigation

Sediment Pattern Correlation with Inflow and Tidal Action, Proposal No. MMC 281.

b. Principal Investigator

Warren E. Graban GSFC ID DE328

c. Problems

The limited funds remaining for this study preclude continuation of work to develop the capability to decode and analyze 24-channel scanner tapes and analyze 12S imagery, and process additional CCT's of the study area. The funds that remain will be expended in completion of analysis of data for the 10 October overpass and preparation of the final report.

d. Work Accomplished 1 May - 30 June 1973

After plans to obtain ground truth and satellite data concurrently on 21 March and 8 and 26 April 1973 were aborted due to inclement weather, ground truth data were successfully taken in the York, Rappahannock, and Choptank Rivers on 14 May 1973. Data collected included Secchi depth and water depth. Water samples were collected for subsequent determination of suspended material concentration.

During the same time period spectral reflectance data were taken at all five of the ERTS test sites with a radiometer system mounted in a small aircraft flying at 1500 feet. The radiometer system is comprised of an Exotech Model 100 ERTS radiometer and FM instrumentation recorder and a video camera, recorder, and monitor. The radiometer and camera were mounted so that they would view a common area of water.

Analysis was continued on portions of CCT's for the two 10 October 1972 scenes (1079-15133 and 1079-15140) covering the C&D Canal and the Choptank, Wicomico, Rappahannock, and York Rivers.

e. Work Contemplated 1 July - August 1973

Analysis of data from the two 10 October scenes will be concluded and a draft of the final report on the project will be written.

f. Significant Results

None this reporting period.

g. Published Articles, Papers, Reports, Talks

None